

**REISSUE APPLICATION DECLARATION
BY THE INVENTOR**

Attorney Docket No.

UMC-215 REI

As a below named inventor, I hereby declare that:

My residence, mailing address and citizenship are stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 6,300,810, granted October 9, 2001, and for which a reissue patent is sought on the invention entitled **VOLTAGE DOWN CONVERTER WITH SWITCHED HYSTERESIS**, the specification of which

☒ is attached hereto.

☐ was filed on _____ as reissue application number ____ / _____ and was amended on _____.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

Dependent claims 9-18 were inadvertently omitted.

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

☒ Customer Number 25235

Place bar code label here



OR

☐ Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number

Direct all correspondence to: ☐ Customer Number

or Bar Code Label

OR ☐ Correspondence

address below

Name	Jed W. Caven				
Address	Hogan & Hartson, LLP				
Address	1200 17 th Street, Suite 1500				
City	Denver	State	CO	ZIP	80202
Country	USA	Telephone	(303) 45-2432	Fax	(303) 899-7333

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and such willful false statements may jeopardize the validity of the application or any patent issuing thereon, or any patent to which this declaration is directed

Name of Sole or First Inventor:

Given Name (first and middle [if any])

Family Name or Surname

Kim C.

Hardee

Inventor's Signature	<i>Kim C. Hardee</i>				Date	1/17/03	
Residence City	Colorado Springs	State	CO	Country	USA	Citizenship	US
Mailing Address	2132 Denton Grove, Apt. 201, Colorado Springs, CO 80919						
Name of Second/Joint Inventor:							
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature					Date		
Residence City		State		Country		Citizenship	
Mailing Address							

☐ Additional inventors are named on ___ supplemental additional inventor(s) sheet(s) PTO/SB/02A attached

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: United Microelectronics Corporation

Application No./Patent No.: 6,300,810 B1 Filed/Issue Date: October 9, 2001

Entitled: VOLTAGE DOWN CONVERTER WITH SWITCHED HYSTERESIS

United Microelectronics Corporation, a Taiwanese corporation,
(Name of Assignee) (Type of Assignee, e.g., corp., partnership, university, government agency, etc.,)

states that it is:

1. ☒ the assignee of the entire right, title and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application;/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

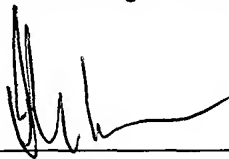
OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Kim C. HARDEE to United Memories, Inc. & Nippon Steel Semiconductor Corp. (copy attached)
2. From: United Memories, Inc. to United Microelectronics Corp. (copy attached)
3. From: Nippon Steel Semiconductor Corp. to United Microelectronics Corp. (copy attached)

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

06/27/03
Date


Signature

John Hsuan
Typed or printed name

Chief Executive Officer
Title

UMC-215 REI

Exhibit A
List of Patents and Applications Assigned to UMC

Case	Title	Patent/Serial No.	Country
209	Pad Input Select Circuit	5,900,021	US
209EPO		Patent No: EP869617 Application No: EP97630071.5	Europe
212	Noise Isolation Circuit	6,037,827	US
212EPO		Application No: EP97630089.7	Europe
214	Filter Capacitor	5,917,230	US
214EPO		Application No: EP97630075.6	Europe
214DV		09/344,854	US
215	Voltage Down Converter w/ Switched Hysteresis	Application serial no. 09/492,727 Provisional serial no. 60/118,736	US
215EPO		Patent No: EP1026689 Application No: EP00300886.9	Europe
215JPN		212568/2000	Japan
215KOR		10-2000-40159	Korea
217	Reference Voltage Shifter	Application serial no. 09/492,730 Provisional serial no. 60/118,677	US
217EPO		Patent No: EP1026690 Application No: EP00300887.7	Europe
217JPN		211185/2000	Japan
217KOR		10-2000-40156	Korea
218	Dynamic Regulation Scheme for High Speed Charge Pumps	Application serial no. 09/493,987 Provisional serial no. 60/118,724	US
218EPO		Patent No: EP1026691 Application No: EP00300888.5	Europe
218KOR		10-2000-40165	Korea
218JPN		213058/2000	Japan
222	High Speed Output	Application serial no. 09/213,764	US
222EPO		Patent No.: EP1014378 Application No: EP99310009.8	Europe
222JPN		189877/2000	Japan
222KOR		10-2000-0033152	Korea

RECORDATION FORM COVER SHEET

U.S. Department of Commerce
Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

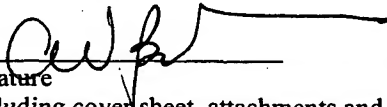
PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>NIPPON FOUNDRY, INC. (formerly Nippon Steel Semiconductor Inc.)</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>Name and address of receiving party(ies)</p> <p>Name UNITED MICROELECTRONICS CORPORATION No. 3 Hsin Road 2 Science Based Industrial Park Hsin Chu City, TAIWAN</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>				
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: March 3, 1999</p>	<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:</p> <table style="width: 100%;"> <tr> <td style="width: 50%;">A. Patent Application No.(s)</td> <td style="width: 50%;">B. Patent No.(s)</td> </tr> <tr> <td></td> <td> <div style="display: flex; justify-content: space-between;"> 6,300,810 6,306,744 </div> <div style="display: flex; justify-content: space-between;"> 5,900,021 6,285,242 </div> <div style="display: flex; justify-content: space-between;"> 6,037,827 6,272,029 </div> <div style="display: flex; justify-content: space-between;"> 5,917,230 6,285,216 </div> </td> </tr> </table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	A. Patent Application No.(s)	B. Patent No.(s)		<div style="display: flex; justify-content: space-between;"> 6,300,810 6,306,744 </div> <div style="display: flex; justify-content: space-between;"> 5,900,021 6,285,242 </div> <div style="display: flex; justify-content: space-between;"> 6,037,827 6,272,029 </div> <div style="display: flex; justify-content: space-between;"> 5,917,230 6,285,216 </div>
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<p>5. Name and Address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Carol W. Burton</u> Internal Address: <u>Hogan & Hartson LLP</u> <u>One Tabor Center</u> <u>1200 17th Street, Suite 1500</u> Street Address: <u>same as above</u> City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u></p>	<p>6. Total number of applications and patents involved: 8</p> <hr/> <p>7. Total fee (37 CFR 3.41) \$ <u>320.00</u></p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <hr/> <p>8. Deposit account number: <u>50-1123</u> (Attach duplicate copy of this page if paying by deposit account)</p>				

DO NOT USE THIS SPACE

9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carol W. Burton  June 17, 2003
Name of Person signing Signature Date

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

RECORDATION FORM COVER SHEET

U.S. Department of Commerce
Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

UNITED MEMORIES INC.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Name and address of receiving party(ies)

Name
UNITED MICROELECTRONICS CORPORATION
No. 3 Hsin Road 2
Science Based Industrial Park
Hsin Chu City, TAIWANAdditional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Security Agreement☐ Other☐ Merger☐ Change of NameExecution Date: March 3, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

6,300,810

6,306,744

5,900,021

6,285,242

6,037,827

6,272,029

5,917,230

6,285,216

Additional numbers attached? ☐ Yes ☒ No

5. Name and Address of party to whom correspondence concerning document should be mailed:

Name: Carol W. BurtonInternal Address: Hogan & Hartson LLPOne Tabor Center1200 17th Street, Suite 1500Street Address: same as aboveCity: Denver State: CO Zip: 80202

6. Total number of applications and patents involved: 8

7. Total fee (37 CFR 3.41)

\$ 320.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

50-1123

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Carol W. Burton

Name of Person signing

Signature

June 17, 2003

Date

Total number of pages including cover sheet, attachments and document: 3Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231


ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, *United Memories Inc.*, having a principal place of business at 4815 List Drive, Suite 109, Colorado Springs, CO 80919 ("Assignor"), hereby assigns, transfers, and conveys to *United Microelectronics Corporation* ("UMC"), having a principal place of business at No. 3 Li Hsin Road 2, Science Based Industrial Park, Hsin Chu City, Taiwan ("Assignee"), its designees, successors, assigns, and legal representatives, the entire right, title, and interest in and to the patents and applications listed in Exhibit A, attached hereto and made a part hereof, and any reexaminations, extensions, reissues, continuations and divisions thereof, and all proceeds from any of the foregoing (including all license royalties and proceeds of infringement suits), and any and all causes of actions (excepting claims against the United States of America) for past, present, and future infringement of any of the foregoing, including the right to collect royalties or damages for any such infringement and the right to sue on any such causes of action, for their own use and benefit and the use and benefit of their successors, assigns, and legal representatives, each and every of the foregoing rights, titles, and interests herein assigned to be held and enjoyed by Assignee, its successors, assigns, and legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors had this Assignment not been made.

IN TESTIMONY WHEREOF, Assignors have caused this Assignment to be duly executed in their names and behalf by affixing their hands and seals thereto by their designated officer, director, or agent, whose name and title appear below.

Executed at Colorado Springs, Colorado, and effective March 3, 1999.

United Memories, Inc.



Signature

Name: Robert L. Gower

Title: President

ASSIGNMENT

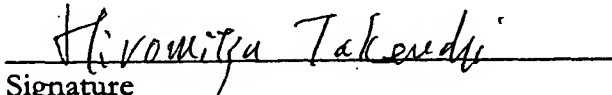
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, *Nippon Foundry Inc.*, formerly known as *Nippon Steel Semiconductor Inc.*, having a principal place of business at No. 1580, Yamamoto, Tateyama-City, Chiba 294-8502 Japan ("Assignor"), hereby assigns, transfers, and conveys to *United Microelectronics Corporation* ("UMC"), having a principal place of business at No. 3 Li Hsin Road 2, Science Based Industrial Park, Hsin Chu City, Taiwan ("Assignee"), its designees, successors, assigns, and legal representatives, the entire right, title, and interest in and to the patents and applications listed in Exhibit A, attached hereto and made a part hereof, and any reexaminations, extensions, reissues, continuations and divisions thereof, and all proceeds from any of the foregoing (including all license royalties and proceeds of infringement suits), and any and all causes of actions (excepting claims against the United States of America) for past, present, and future infringement of any of the foregoing, including the right to collect royalties or damages for any such infringement and the right to sue on any such causes of action, for their own use and benefit and the use and benefit of their successors, assigns, and legal representatives, each and every of the foregoing rights, titles, and interests herein assigned to be held and enjoyed by Assignee, its successors, assigns, and legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors had this Assignment not been made.

A copy of the formal documents filed with the government of Japan changing the name of *Nippon Steel Semiconductor Corp.* to *Nippon Foundry Inc.* is attached hereto as Exhibit B.

IN TESTIMONY WHEREOF, Assignors have caused this Assignment to be duly executed in their names and behalf by affixing their hands and seals thereto by their designated officer, director, or agent, whose name and title appear below.

Executed at No. 1580 Yamamoto, Tateyama-City, Chiba 294-8502 Japan, and effective March 3, 1999.

Nippon Foundry Inc.
(formerly *Nippon Steel Semiconductor Corp.*)


Signature

Name: Hiromitsu Takeuchi
Title: President

A S S I G N M E N T

WHEREAS, I, Kim C. HARDEE, having a residence address of 970 Kit Carson Lane, Colorado Springs, Colorado 80920, have made a certain new and useful invention relating to VOLTAGE DOWN CONVERTED WITH SWITCHED HYSTERESIS, for which I am making or have made application for Letters Patent of the United States, said application being identified by Docket No. UMI 215, Client/Matter No. 80450.0019.001, in the law firm of Hogan & Hartson LLP, One Tabor Center, 1200 Seventeenth Street, Suite 1500, Denver, Colorado, 80202, which is being executed concurrently herewith; and

WHEREAS, I now own the entire right, title and interest therein; and

WHEREAS, United Memories, Inc., a Colorado corporation, whose post office address is 4815 List Drive, Suite 109, Colorado Springs, CO 80919, and Nippon Steel Semiconductor Corporation, a Japanese corporation whose post office address is Tateyama Plant, 1580 Yamamoto, Tateyama-shi, Chiba 294, Japan, hereinafter collectively known as ASSIGNEES, are desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor;

NOW THEREFORE, upon consideration of my employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, I do hereby sell and assign unto ASSIGNEES, and said ASSIGNEES' legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, all applications claiming priority therefrom, and the Letters Patent, both of the United States and of other countries, and inventor's certificates, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEES, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, I do hereby covenant and agree with ASSIGNEES that I will not execute any writing or do any act whatsoever conflicting with

this assignment, and that I will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEES, execute such additional assignments and other writings and do such additional acts as ASSIGNEES may deem necessary or desirable to perfect the ASSIGNEES' enjoyment of this grant, and render all necessary assistance in applying for and obtaining original, continuation, continuation-in-part, divisional, reexamined, renewal, reissued or extended Letters Patent of the United States, or of other countries, or inventor's certificates, on said invention, and in enforcing any rights or causes in action accruing as a result of such applications, certificates, or patents, by giving testimony in any proceedings or transactions involving such applications, certificates, or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date hereinafter set forth.

Date: Jan. 26, 2000

Kim C. Hardee
Kim C. HARDEE

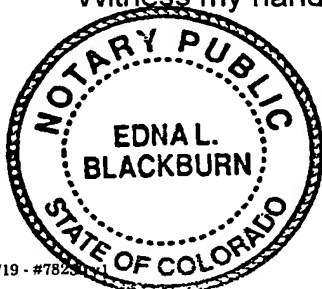
STATE OF COLORADO)
) ss.
COUNTY OF EL PASO)

On this 26th day of January, 2000, before me, a notary public in and for said county, appeared, Kim C. HARDEE who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed, and delivered the same instrument as a free and voluntary act for the uses and purposes therein set forth.

My commission expires May 17, 2001.

Witness my hand and official seal.

(SEAL)



Edna L. Blackburn
Notary Public

Attorney Docket No. UMC-215
Client Matter No. 81848.0009.002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of:

Kim C. HARDEE

Patent No. 6,300,810

Patent Appl. No. 09/492,727

Issue Date: October 10, 2001

Title: VOLTAGE DOWN CONVERTER
WITH SWITCHED HYSTERESIS

Examiner: J. ZWEIZIG

Art Unit: 2816

Consent of Assignee

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

United Microelectronics Corporation, assignee of U.S. Patent No. 6,300,810 consents to the filing of the present reissue application for the reissue of U.S. Patent No. 6,300,810.

Dated:

Jan. 30, 2003

Water Lur
Research Director
The Chairman and President Office
United Microelectronics Corporation

